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AUG 04 2006
PATENT & TRADEMARK OFFICE

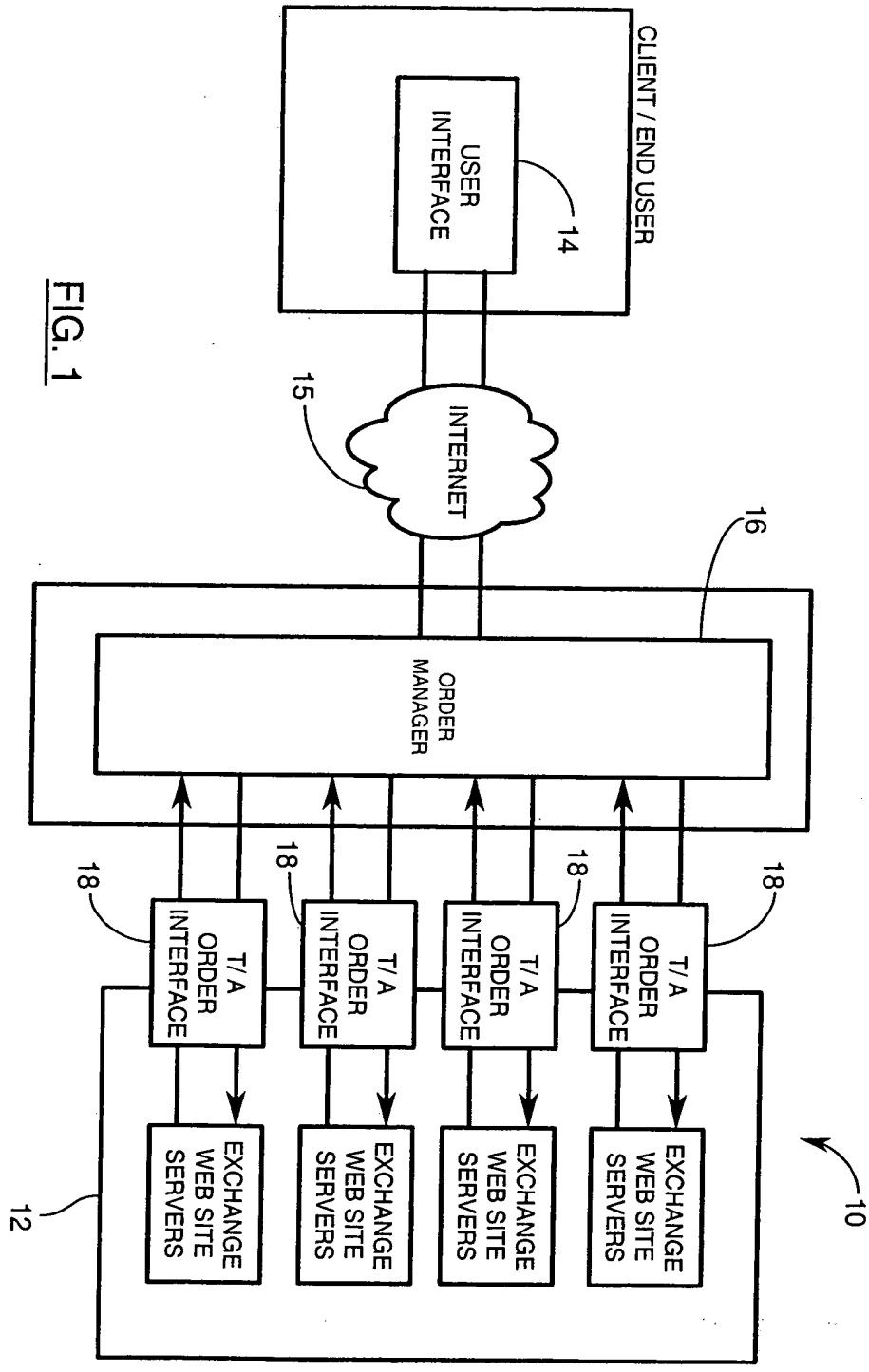

FIG. 1

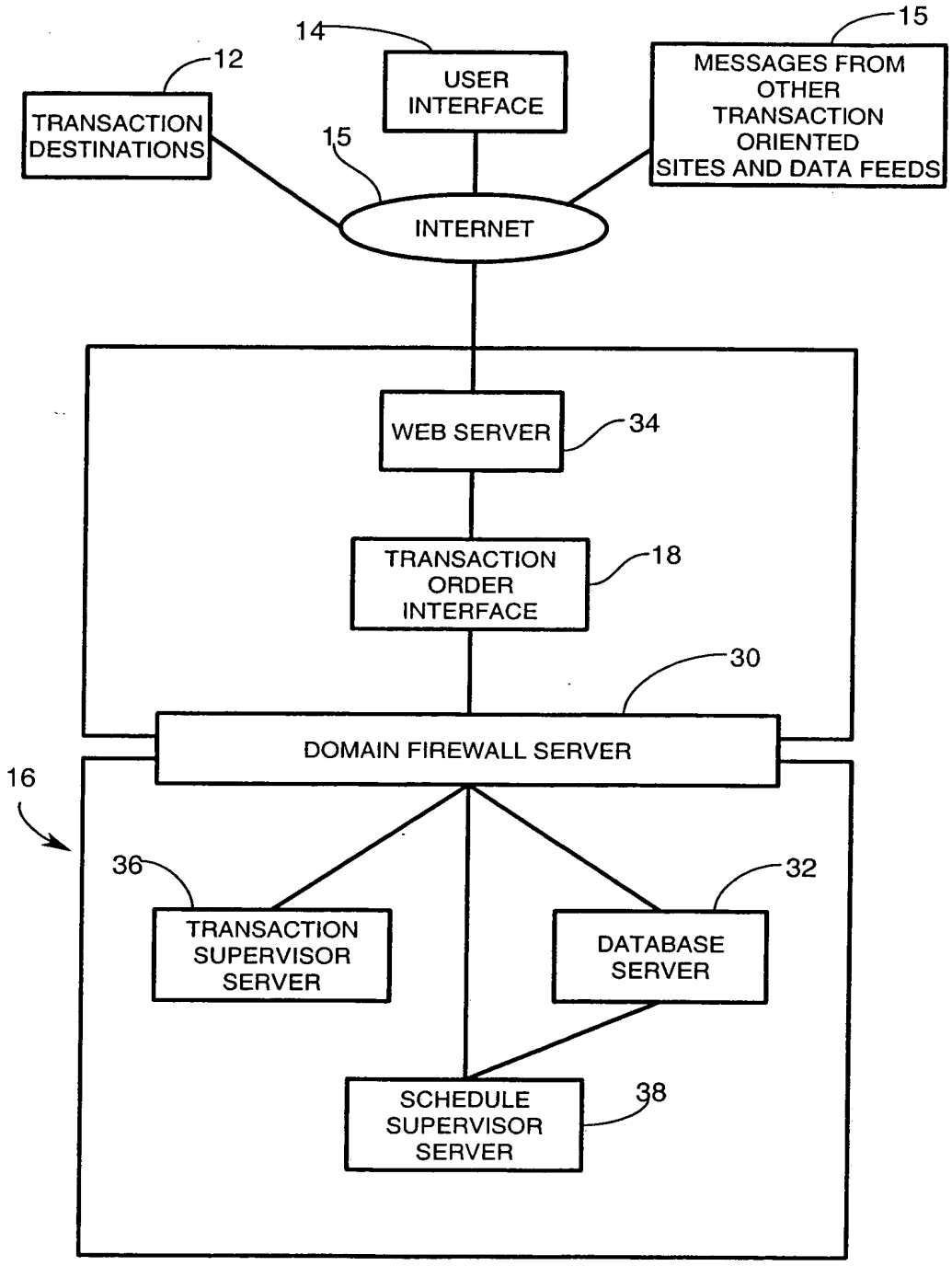
14
15
12
USER INTERFACE
MESSAGES FROM OTHER TRANSACTION ORIENTED SITES AND DATA FEEDS
TRANSACTION DESTINATIONS
15
INTERNET
WEB SERVER
34
TRANSACTION ORDER INTERFACE
18
30
DOMAIN FIREWALL SERVER
16
36
32
TRANSACTION SUPERVISOR SERVER
DATABASE SERVER
SCHEDULE SUPERVISOR SERVER
38

FIG. 2

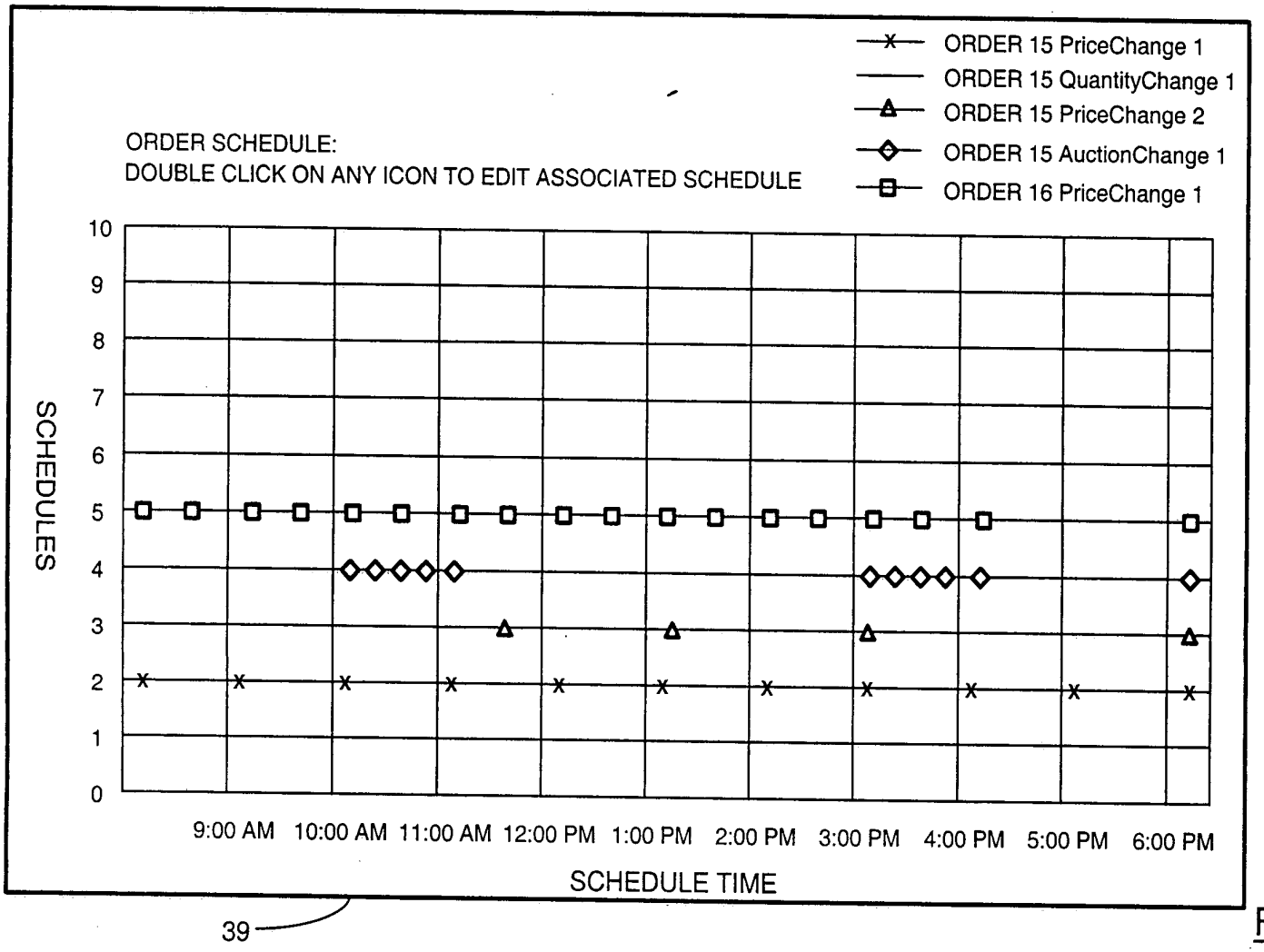
ORDER 15 PriceChange 1
ORDER 15 QuantityChange 1
ORDER 15 PriceChange 2
ORDER 15 AuctionChange 1
ORDER 16 PriceChange 1
ORDER SCHEDULE:
DOUBLE CLICK ON ANY ICON TO EDIT ASSOCIATED SCHEDULE
SCHEDULES
10
9
8
7
6
5
4
3
2
1
0
9:00 AM
10:00 AM
11:00 AM
12:00 PM
1:00 PM
2:00 PM
3:00 PM
4:00 PM
5:00 PM
6:00 PM
SCHEDULE TIME
39

FIG. 3

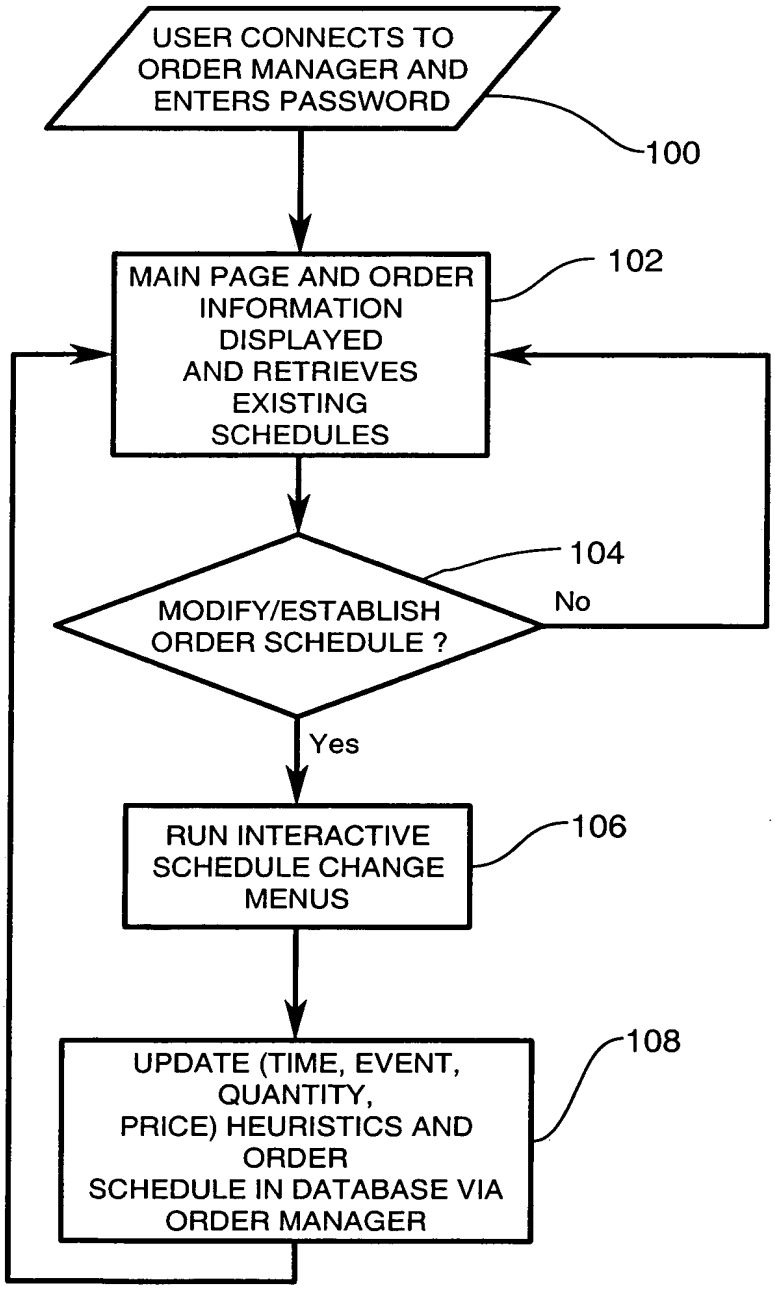
USER CONNECTS TO ORDER MANAGER AND ENTERS PASSWORD
100
MAIN PAGE AND ORDER INFORMATION DISPLAYED AND RETRIEVES EXISTING SCHEDULES
102
MODIFY/ESTABLISH ORDER SCHEDULE ?
104
No
Yes
RUN INTERACTIVE SCHEDULE CHANGE MENUS
106
UPDATE (TIME, EVENT, QUANTITY, PRICE) HEURISTICS AND ORDER SCHEDULE IN DATABASE VIA ORDER MANAGER
108

FIG. 4A

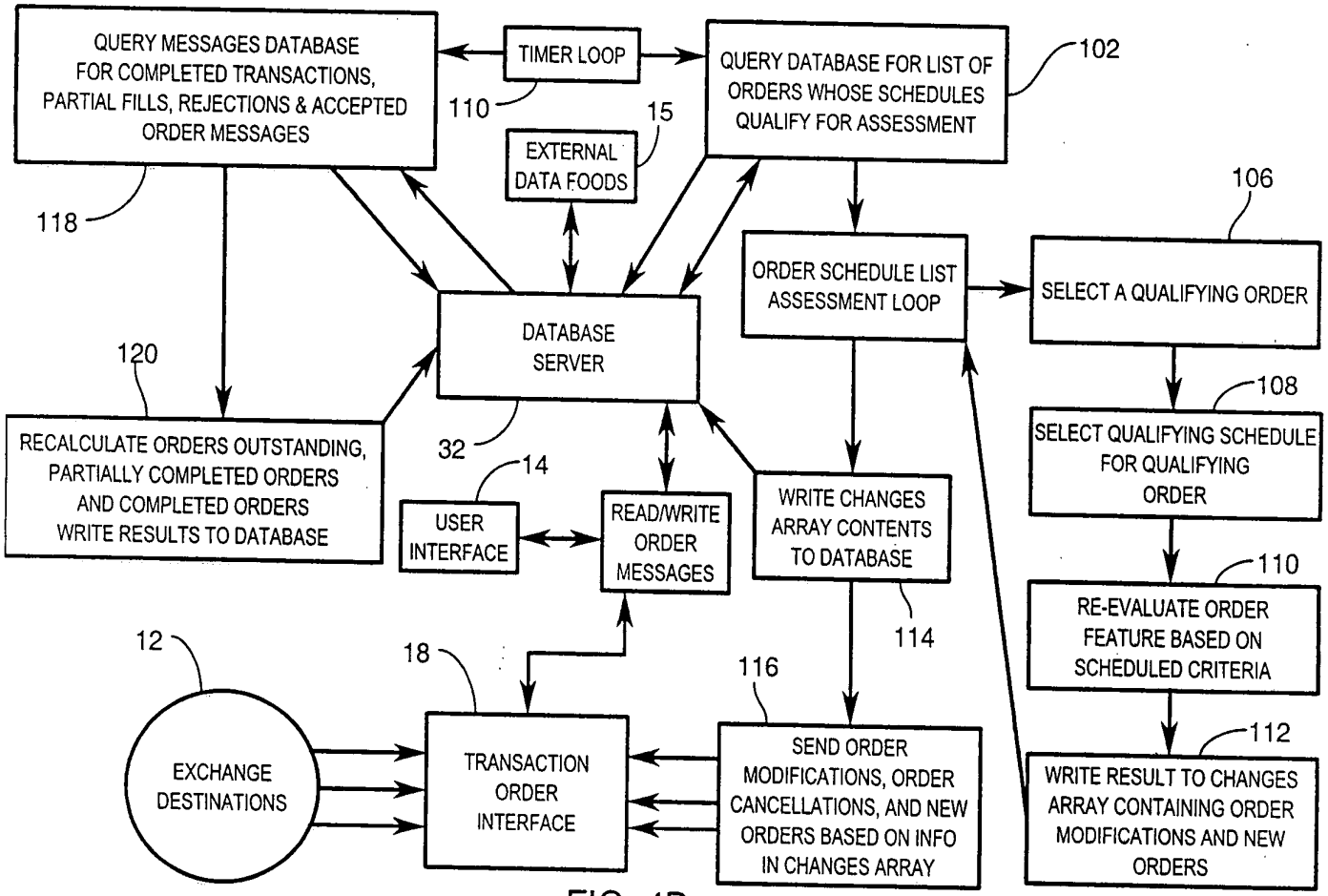
QUERY MESSAGES DATABASE FOR COMPLETED TRANSACTIONS, PARTIAL FILLS, REJECTIONS & ACCEPTED ORDER MESSAGES
TIMER LOOP
110
QUERY DATABASE FOR LIST OF ORDERS WHOSE SCHEDULES QUALIFY FOR ASSESSMENT
102
15
EXTERNAL DATA FOODS
118
106
ORDER SCHEDULE LIST ASSESSMENT LOOP
SELECT A QUALIFYING ORDER
DATABASE SERVER
120
108
SELECT QUALIFYING SCHEDULE FOR QUALIFYING ORDER
RECALCULATE ORDERS OUTSTANDING, PARTIALLY COMPLETED ORDERS AND COMPLETED ORDERS WRITE RESULTS TO DATABASE
32
14
USER INTERFACE
READ/WRITE ORDER MESSAGES
WRITE CHANGES ARRAY CONTENTS TO DATABASE
110
RE-EVALUATE ORDER FEATURE BASED ON SCHEDULED CRITERIA
12
18
116
114
EXCHANGE DESTINATIONS
TRANSACTION ORDER INTERFACE
SEND ORDER MODIFICATIONS, ORDER CANCELLATIONS, AND NEW ORDERS BASED ON INFO IN CHANGES ARRAY
112
WRITE RESULT TO CHANGES ARRAY CONTAINING ORDER MODIFICATIONS AND NEW ORDERS

FIG. 4B

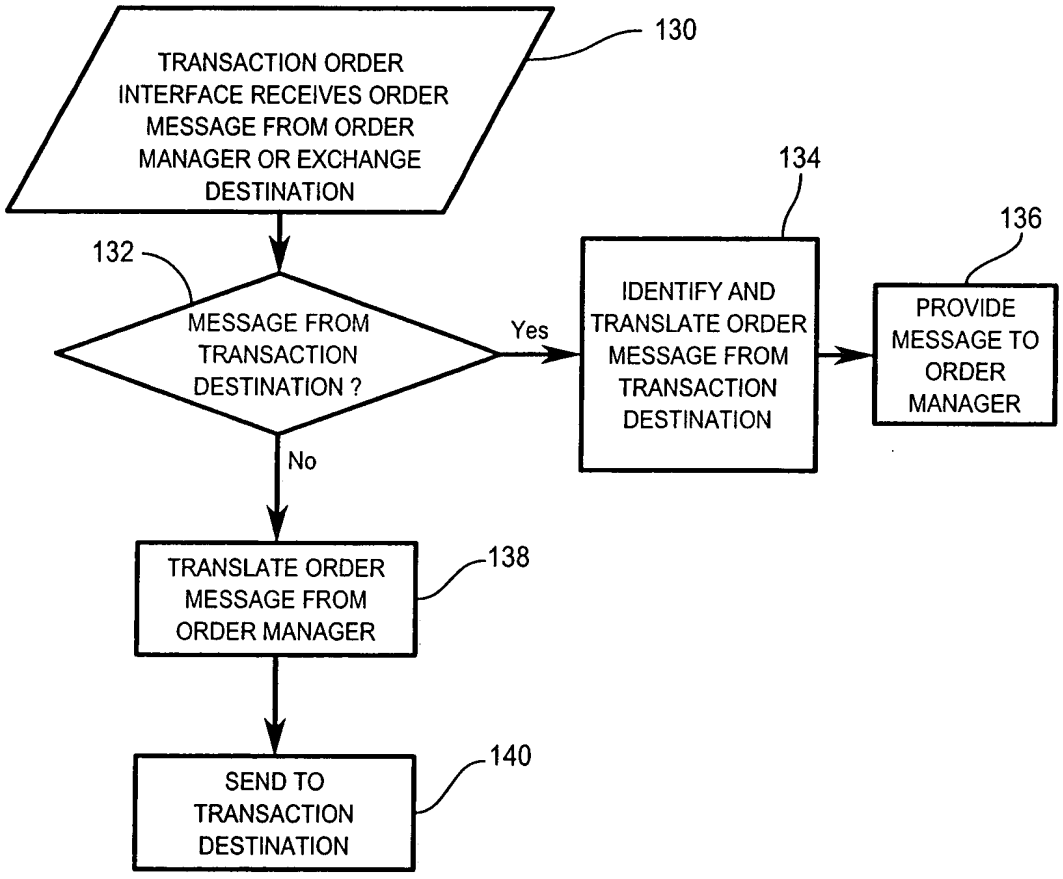
TRANSACTION ORDER INTERFACE RECEIVES ORDER MESSAGE FROM ORDER MANAGER OR EXCHANGE DESTINATION
130
132
MESSAGE FROM TRANSACTION DESTINATION ?
Yes
No
134
IDENTIFY AND TRANSLATE ORDER MESSAGE FROM TRANSACTION DESTINATION
136
PROVIDE MESSAGE TO ORDER MANAGER
TRANSLATE ORDER MESSAGE FROM ORDER MANAGER
138
SEND TO TRANSACTION DESTINATION
140

FIG. 4C

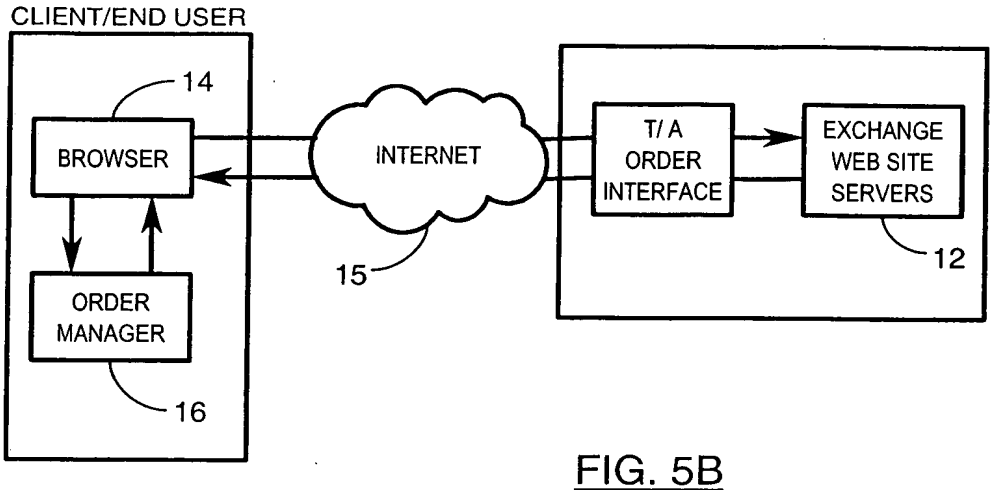
CLIENT/END USER
14
BROWSER
ORDER MANAGER
16
INTERNET
15
T/ A ORDER INTERFACE
EXCHANGE WEB SITE SERVERS
12

FIG. 5B

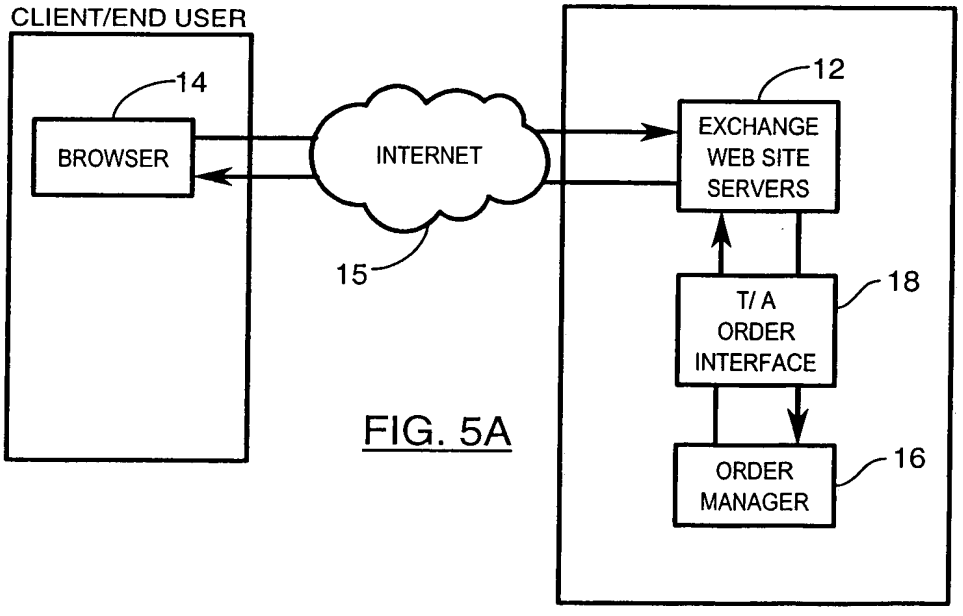
CLIENT/END USER
14
BROWSER
INTERNET
15
12
EXCHANGE WEB SITE SERVERS
T/ A ORDER INTERFACE
18
ORDER MANAGER
16

FIG. 5A